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AVIC-X1 DVD Navigation AV Headunit

A SYSTEM THAT SPANS GEOGRAPHIES

Popping into town for business or taking the family away on holiday, wherever you go, Pioneer's new AVIC-X1 DVD Navigation AV Headunit gets you there in style. Designed and built by Pioneer, the world leader in car navigation systems, it is Europe's first ever all-in-one unit that can fulfil your every navigation and in-car entertainment dream.

The AVIC-X1 has been designed with you in mind. It will guide you every step of your journey while you listen to music from its radio, a CD, MP3 CD or a concert on DVD. Or your passengers can enjoy their favourite DVD movie on an optional rear seat screen. With its unique Memory Navi feature, the AVIC-X1 is the only map navigation unit available today that can both navigate and play CDs or DVDs simultaneously.

The AVIC-X1 is a technological dream offering the highest standards in sound quality as well as being beautifully crafted. The attractive touch panel display provides the perfect control centre for making every journey an experience you will never forget.

- UTMOST COMFORT AND EASE WITH THE TOUCH PANEL DISPLAY
- STRESS-BUSTING ADVANCED NAVIGATION FEATURES
- EVERYTHING YOU NEED FOR NON-STOP ENTERTAINMENT ON THE ROAD
- SMART IN DESIGN AND SMART ON SECURITY

AVIC-X1, YOUR GUIDE TO NEW DESTINATIONS

Whatever obstacles you face on the road, you'll be prepared with the AVIC-X1 DVD Navigation AV Headunit, which headlines as a full-featured navigation unit. Just choose your destination and you'll be guided precisely to its doorstep with step-by-step voice instructions, as well as on-screen map guidance. You are in total control of how the unit works for you: searching for destinations, selecting a route and type of on-screen guidance. Just one stroke on the touch panel display and you get all the information you need — immediately. Every operation is superfast and navigation is always accurate, with the most expansive map coverage available. This navigation wonder will also help you avoid traffic troubles.

With this unique unit, you'll reach your destination in comfort, safety and style — and with the greatest of ease.

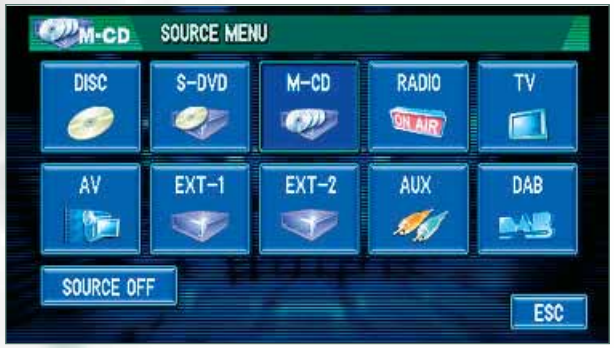
Exclusive Driver's View Navigation mode with detailed City Map

KEEP YOUR PASSENGERS ENTERTAINED

Not only does the AVIC-X1 provide the utmost high performance navigation, it also doubles as an in-car entertainment unit. With the unique Memory Navi* feature, navigation guidance continues uninterrupted while you enjoy listening to music or your rear seat passengers delight in watching their favourite DVD movie on an optional rear screen. All of this is possible with just one multitalented unit, with one drive.

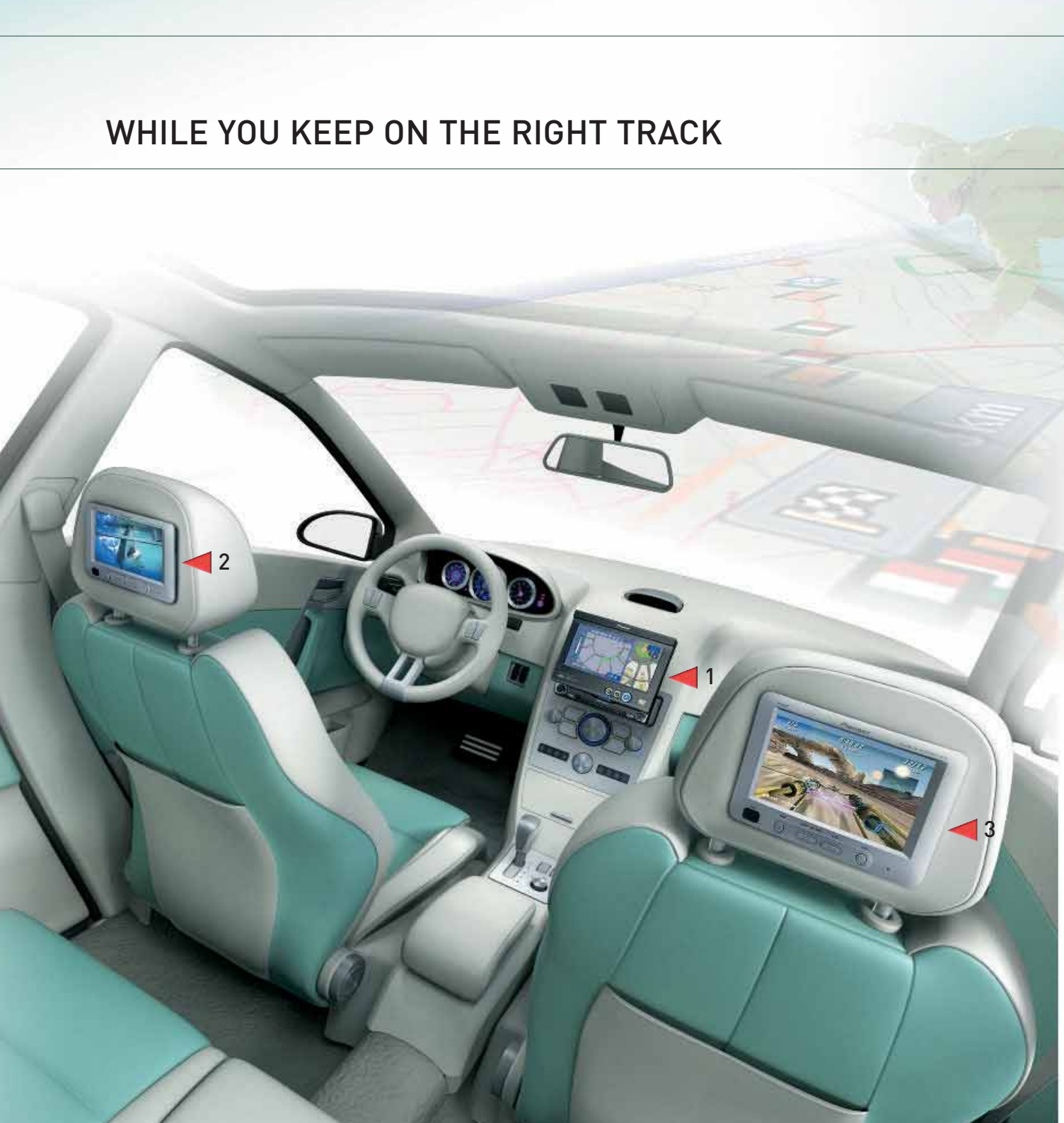
If you want to expand your entertainment horizons, the AVIC-X1 is fully capable of handling more. Multiple rear screens enable passengers to choose their own amusement. Hook up a multi-DVD player, TV tuner or a camcorder, and there'll be no more fighting over what to watch. You can even attach a games console and your kids will become the ultimate backseat drivers.

** For full details on the Memory Navi feature, please turn to page 10.*



AV Source Selection menu

WHILE YOU KEEP ON THE RIGHT TRACK



1 AVIC-X1

The AVIC-X1 is at the heart of in-car navigation and entertainment today. Accurate and user-friendly navigation, a touch panel display, a fully functioning headunit and a host of entertainment features are integrated into one seamless unit — which fits into a standard car radio slot. It also has the capacity to hook up a variety of additional entertainment components, such as a multi-DVD player, CD changer, DAB tuner, TV tuner, camcorder, rear screens... the list goes on. With the AVIC-X1, boring car journeys will be no more than a distant memory.

2 REAR SEAT ENTERTAINMENT

Just by adding one optional rear screen to the AVIC-X1, you can transform your car into a theatre on wheels. Just pop out the DVD map navigation disc and slide in a DVD-Video disc, so rear seat passengers can enjoy their favourite DVD film — whilst you are guided around Europe. No additional units required! It's never been easier to keep the back seat happy!

3 FUN AND GAMES

You can easily connect a games console to the AVIC-X1 and passengers can play their favourite games. They'll really feel like they're fighting aliens instead of on the highway. It'll be the last time you hear 'Are we there yet?'

A SUPERIOR NAVIGATION SYSTEM

Gone are the days of arguments about which direction to go, which road to take. Pioneer's new AVIC-X1 DVD Navigation AV headunit has the answer every time. This stylish system offers loads of unique features to help you reach your destination safely and comfortably and it is still so simple to use too. With a choice of seven different navigation modes, it is the ultimate driving companion.

AVIC-X1'S TOUCH PANEL DISPLAY: SMART TO LOOK AT, SMART TO USE

The AVIC-X1 features a hi-tech motorised touch panel display that is so fast and responsive, it will find your destination and plot a choice of routes to get there in seconds. With amazingly accurate maps, you will never get lost again. Search is easy. Use the eye-catching on-screen graphics to enter a location, browse the extensive list of addresses, POIs and postal codes, or scroll smoothly around the map. However you look, you will easily find where you want to go.

The navigation screen offers additional information about your surroundings, such as POIs or the location of gas stations throughout your entire journey. You can even ask it to call up intermediate points in your trip or locate nearby streets you have forgotten the name of. Simple and sure operation makes the AVIC-X1 the perfect co-pilot for a safe trip every time.

KEEP YOUR EYES ON THE ROAD WITH VOICE GUIDANCE

The ultimate safe driving companion, the AVIC-X1 provides precise instructions throughout your journey. Choose one of eight different European languages and a charming female voice will guide you on your way from junction to junction, always warning you well in advance of the directions you should take and informing you of your arrival. Select how you hear your guide by opting between left, right or both front speakers. Accurate voice guidance, combined with the ultra easy-to-operate touch panel display, will get you and your passengers to your destination easily, every time.

Communicate smoothly and easily with the AVIC-X1 using its unique user-friendly Graphic Display Controller. Smart graphics make operation a simple pleasure.

The navigation screen responds instantly to every touch and stays interactive throughout your entire journey. No waiting around for it to make its mind up where you are going. Ergonomically designed, every on-screen icon is placed to provide optimal viewing and driving comfort.

Make it a two-way conversation, with the optional voice command pack CD-VC1. You can operate both the navigation and AV features using your own voice commands. Not once will you have to take your eyes of the road ahead.

FIND YOUR DESTINATION THE WAY YOU WANT TO

So many search options are available with the AVIC-X1, you can find your destination easily and quickly even if you don't have much information at all. Search using any criteria you have; address or postal code, town or nearest Point of Interest (POI). You can search the system for alternative destinations whilst en route too. With a vast database of POIs, the DVD Map Disc puts all of Europe's treasures at your fingertips. You can even turn the AVIC-X1 into your own personal travel guide by inputting places you often go to or may want to visit again. With so many features, the AVIC-X1 is your definitive driving companion.

→ ADDRESS SEARCH

Simply type in the first letters of the street/city you need to go to and list of matching streets/cities will appear instantly. Choose the one you want and chart your journey to get there. You can even input the house number for more accurate guidance.

→ POINT OF INTEREST (POI) SEARCH

Pioneer's AVIC-X1 will take you to a gourmet restaurant for dinner, accompany you to a game of golf or find you a petrol station before you run out of fuel. With more than 1.3 million Points of Interest divided into 65 categories and subcategories, you can easily locate the nearest gas station, a local golf course or restaurant to match your appetite, no matter what food you are in the mood for. Simply type in what you are looking for or scroll the map with gas station logos and convenient pictograms. The AVIC-X1 will guide you right to the doorstep.

→ POSTAL CODE SEARCH

Typing in a postcode is an easy way to help you find a location. The system recognises thousands of postal codes right across Europe and can easily navigate you safely to your end destination. This is particularly useful in Great Britain where postal codes indicate whole or part of a street or even an individual house.

→ MAP SEARCH

Even with no precise details of your destination, the AVIC-X1 will still get you there. Scroll around the detailed map of the surrounding area, indicate a point close by and the system will use that as your destination point and guide you safely to where you want to be.

You can make the map your own by registering and attaching icons to up to 300 destinations. Whenever you are in the area, they will always be visible on the map. To visit any of them again, just touch the icon on the screen and AVIC-X1 will chart your journey for you.

A SUPERIOR NAVIGATION SYSTEM

MADE FOR YOUR CONVENIENCE AND COMFORT

The AVIC-X1 works exactly the way you want it to. By personalising the navigation system and selecting your own preferences, you determine how you are guided to your destination. Everyone's driving style is different and everyone has different tastes. The AVIC-X1 ensures that every trip is the most comfortable and convenient for you.

→ ROUTEING

Once you have selected your destination, the AVIC-X1 offers a choice of up to six possible routes to get you there. It's up to you the way you want to go. You can opt to avoid motorways, ferries or toll roads. You can choose the shortest distance or take the fastest route time-wise. No matter which way you choose, the AVIC-X1 will always be on hand to guide you and get you to your destination.

→ GUIDANCE

You're ready to set off. How do you want to view your route? Again, the choice is yours. The AVIC-X1 offers up to seven different guidance modes including four navigation modes, two combination modes and the Vehicle Dynamics mode.

NAVIGATION MODES

Watch a realistic 3-D view of the road ahead on the navigation screen, consult a map of the area you are travelling in or choose street list mode to discover the names of the places you are passing. If you can't decide, opt for a mix of any two of these hi-tech navigation modes.

COMBINATION MODES

The AVIC-X1 proposes two split screen possibilities. You can keep an eye on the road behind as well as your route ahead by choosing the rear view option combined with the navi map*. Or keep track of what you're listening with the combined audio status and navi map. By simply touching the view button, you can instantly switch to the view you want.

** Only available with optional Rear View Camera attached. Warning: Rear View mode is not to be used for entertainment purposes.*

VEHICLE DYNAMICS MODE

Want to stay informed of your car's performance in real time? Switch to the unique Vehicle Dynamics mode and discover your lateral G-force, acceleration, angular velocity, current speed, slope angle, compass, clock and battery voltage.

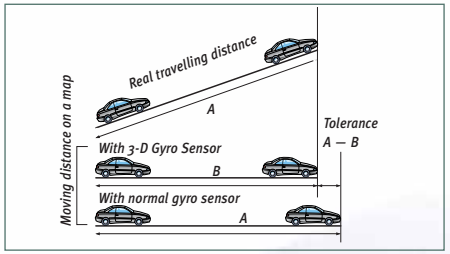
INTERSECTION ZOOM

Never miss a turn again thanks to the AVIC-X1's intersection zoom. When you near any junction, it will automatically show you a bird's eye view of that junction, highlighting the exact route you need to take. Combined with precise voice commands, you will take the right turn every time.

SUPER FAST AND ACCURATE NAVIGATION SYSTEM

Just one DVD-ROM and you have the whole of Europe at your fingertips. With the AVIC-X1, you can input your destination and choose your route in literally a matter of seconds. It'll be ready to go before you've even warmed up the engine.

Never has your choice of destinations been so vast. The DVD Map Disc includes over 6 million km of roads across Europe, more than 1.3 million POIs divided into 65 different categories, and with thousands of house numbers, it will take you right to the doorstep of your destination. With a built-in 3-D gyro sensor, the AVIC-X1 not only makes the fastest calculations, but is always accurate too, even when you are driving through tunnels.

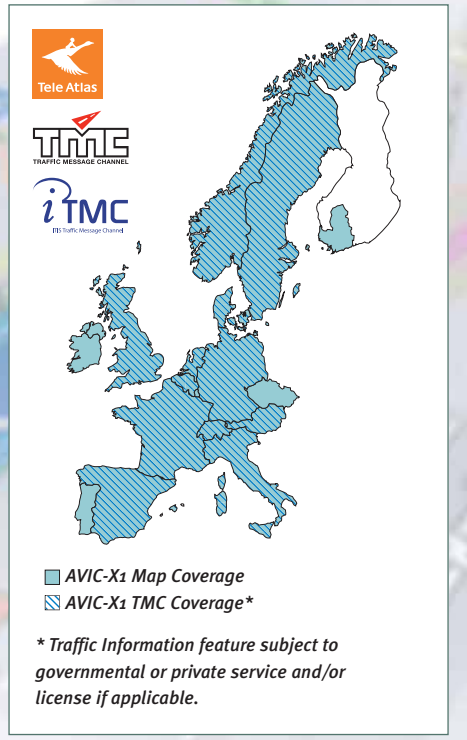


3-D Gyro Sensor for pinpoint accurate navigation calculations

→ EUROPEAN CITY MAPS

Often get lost in large cities ? Not any more. The Map DVD includes detailed layout of 10 European cities on a 25-50 m scale. Including footprints of buildings and the actual geometry of roads, the detailed city plan on your screen will exactly match what you see outside. You'll never get lost again.

Detailed City Map



AVIC-X1 Map Coverage
*AVIC-X1 TMC Coverage**

** Traffic Information feature subject to governmental or private service and/or license if applicable.*

DON'T BE TROUBLED BY TRAFFIC AND SAVE TIME WITH THE TMC RECEIVER

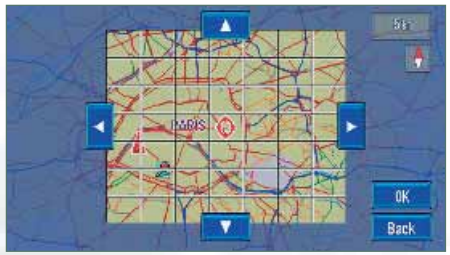
Rather than simply listening to the latest traffic news and trying to determine an alternative route yourself, let Pioneer's AVIC-X1 do the work. The TMC receiver not only warns you of potential traffic problems ahead, but it also offers a selection of ways around the black spot.

Trouble can either be shown on the map or you can receive a list of all traffic events in your area. Simply scroll down the list to find which traffic events may affect your trip. Whether you are driving for business or pleasure, the AVIC-X1 offers the most convenient and stress-free way to travel.

TMC Traffic Alert display

TMC Traffic Events List display

MORE DISTINCTIVE FEATURES FOR UNPARALLELED FUNCTIONALITY



Manual Map Extraction display

Downloading Status display

SIMULTANEOUS CROWD PLEASER AND PATHFINDER THANKS TO MEMORY NAVI

Step-by-step guidance and simultaneous full in-car entertainment is now possible with just one smart system. Thanks to the unit's built-in Memory Navi, you can navigate comfortably in the driver's seat whilst listening to a CD or entertaining rear seat passengers with a DVD movie on optional rear screens, all using the same unit.

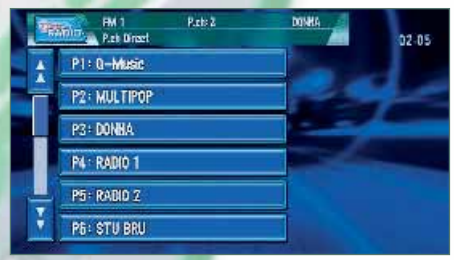
→ Select your European destination and decide on your route. The map data for a corridor of 10 km around your route will be automatically downloaded into the AVIC-X1's memory, no user intervention necessary. You can already start and be guided on your journey whilst the data continues to download. Once the download is complete, simply take the DVD map disc out and insert a CD, MP3 CD or DVD-Video.

→ Whilst your passengers break open the popcorn, you still have full guidance instructions and a full selection of guidance modes on the navigation screen. The system can also reroute you back to your original path in the event you decide to leave the calculated route. You can load your home area on a 15 km x 15 km scale to the memory, consult an entire map of Europe and be alerted of possible traffic problems en route (in the country where the DVD map disc was last loaded).

→ If your journey is very long, the system may request that you re-insert the DVD map disc to download an extra stretch of map data. By that time, you will have listened to four of your favourite CDs or your passengers will have enjoyed two full DVD movies.

AHEAD OF ALL OTHER HEADUNITS

MP3 The AVIC-X1 not only provides state-of-the-art navigation guidance and top-class in-car entertainment, but it is also a comprehensive headunit with full complement of features built to the high standard of technology that the Pioneer brand stands for. Enjoy movies or music in powerful and perfect sound thanks to the MOSFET 50 W x 4 amplifier. The D4Q Digital FM/AM tuner provides constant and clear radio reception even under the most demanding of reception conditions. You can even use your current steering wheel control to manage the unit's audio features as Pioneer has ensured that the AVIC-X1 is wired remote control ready.



RDS Radio Stations List display

MP3 File List display

The AVIC-X1 is certainly up with the times. Not only can it read and play MP3 files recorded on CD-R/CD-RW discs, but it can also display a convenient MP3 File or CD Track List on-screen, with ID3 Tag or CD Text enabled discs. To select an RDS radio station from your list of presets, all you need to do is touch the radio station name on the display.

PUT YOURSELF IN YOUR SYSTEM

Your screen will really come to life with your own pictures and graphics in the background. No special programme needed. Simply download your favourite JPEG picture onto a CD-R/CD-RW and install it onto your AVIC-X1. Marvel at your family's delight at seeing themselves or their favourite characters on the screen. Alternatively, enjoy the selection of backgrounds already included with the system.

YOUR SYSTEM IS ALWAYS SAFE

To avoid temptation for potential thieves, the AVIC-X1's motorised screen folds neatly away into the dashboard, leaving simply a 10 digit sub-display panel visible. It looks just like any car radio. The bottom part of the panel can even be removed for total security of your system.

SPECIFICATIONS

	AVIC-X1
NAVIGATION UNIT	
GPS RECEIVER	
System	L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system	8-channel multi-channel reception system
Reception frequency	1,575.42 MHz
Sensitivity	–130 dBm
Frequency	approx. once a second
COMMON	
Maximum current consumption	10 A
Power source	DC 14.4 V (10.8 — 15.1 V allowed)
Ground type	Negative type
GPS ANTENNA	
Antenna	Micro strip flat antenna/ right-handed helical polarisation
Antenna cable	5.0 m
DIMENSIONS	
Main unit (Chassis) (mm)	178 x 50 x 160
Hide-away Unit (mm)	180 x 30 x 140
GPS antenna (mm)	34 x 13 x 36
WEIGHT	
Main unit (kg)	2.5
Hide-away Unit (kg)	0.7
GPS antenna (g)	105
DVD/VCD/CD PLAYER VIDEO	
Output level	1,000 mVp-p (75 Ω) (DVD, sampling frequency 96 kHz)
DISPLAY	
Screen size/Aspect ratio	6.5-inch wide/16:9
Effective display area (mm)	144 x 76
Pixels	336,960 (1,440 x 234)
Display method	TFT active matrix driving
Colour system	PAL/NTSC
AM/FM TUNER	
FM	
Frequency range (MHz)	87.5 — 108
Usable sensitivity (dBf/µV, 75 Ω)	8/0.7
S/N ratio (dB)	75
Frequency response (Hz)	30 — 15,000
Stereo separation (dB)	45
MW	
Frequency range (kHz)	531 — 1,602
Usable sensitivity (µV)	18
LW	
Frequency range (kHz)	153 — 281
Usable sensitivity (µV)	30
AUDIO	
Frequency response (Hz)	5 — 44,000
S/N ratio (dB/1kHz)	97: DVD, 96: CD
Dynamic range (dB/1kHz)	95: DVD, 94: CD
GENERAL	
Max. output power (watts)	4 x 50
DIN output power (watts: DIN 45324, +B = 14.4 V)	4 x 27
Max. pre-out voltage (V/Ω)	1/100
Region number	2

OPTIONAL ACCESSORIES

- **Voice command pack (CD-VC1) with microphone and steering wheel remote control**
  Allows you to operate your AVIC-X1 'hands on the wheel'. Control the most used functions with the remote's buttons and give further voice instructions through the microphone.

- **Rear seat remote control (CD-RV1)**
  This remote control gives rear seat passengers control over their DVD movie on the AVD-W6200 rear screen.

- **Trunk/boot mount extension cables (CD-SC300E)**
- **Universal back-up camera (ND-BC1)**
- **Off-set installation kit (AD-GA10)**
  Depending on your vehicle, it might be possible to mount the AVIC-X1 deeper into your dashboard. Ask your Pioneer dealer for details on how AVIC-X1 can be mounted in your car.
- **6.5-inch Wide-screen touch panel LCD Colour Display for headrest mounting (AVD-W6200)**
- **6.5-inch Wide-screen LCD Colour Display for roof mounting (AVR-W6100)**
- **Hide-away PAL TV Tuner (GEX-P6400TVP)**
- **Hide-away DAB Tuner (GEX-P700DAB)**
- **12-Disc/6-Disc Multi-CD Player (CDX-P1270/CDX-P670)**
- **6-Disc Multi-DVD Player with Dolby Digital/DTS Digital Output (XDV-P9-II)**
- **DVD Player with Digital Output (SDV-P7)**

For more product details, please refer to the Pioneer website at www.pioneer-eur.com or ask your Pioneer dealer for a consumer catalogue containing the complete line-up of Pioneer in-car products.

FEATURES

AVIC-X1

DVD NAVIGATION AV HEADUNIT

BUILT-IN NAVIGATION UNIT
- 32-bit RISC CPU
- Exclusive Graphic Accelerator for smooth line drawing
- Europe on one DVD-ROM disc
- Advanced and super fast (Re-)routing
- Voice guidance and DISPLAY menu (8 Languages Support: English, German, French, Italian, Dutch/Flemish, Spanish, Danish, Swedish)
- Voice recognition with optional Voice Command Pack (6 Languages Support: English, German, French, Italian, Dutch, Spanish)
- Selectable Voice Guidance Channel (L, R, or L+R)
- 6 Guidance Modes, including the exclusive Driver's View mode and the new Split Screen modes (Rear view + Navi Map/AV status + Navi Map)
- Memory Navi for simultaneous navigation and AV entertainment
- Built-in GPS receiver
- Built-in 3-D positioning sensor
- Built-in RDS-TMC tuner for real-time Traffic Information
- Background picture customisation via CD-ROM

DVD-ROM Navigation Disc: CNDV-40M(T)
- Application programme and map data on 1 DVD disc
- Coverage Area: UK (incl. Northern Ireland), Germany, France, Italy, Benelux, Austria, Switzerland, Spain, Portugal, Denmark, Sweden, Finland (areas of Helsinki, Varsiais-Suomi, Kanta-Häme, Pirkanmaa, Ahvenanmaa), Norway, Ireland (= Dublin, Cork, Galway, Limerick and selected motorways), Czech Republick (Prague area and selected motorways), Monaco, Liechtenstein, Andorra, San Marino, The Vatican

DISPLAY
- Fully motorised high-quality 6.5-inch TFT active matrix LCD colour display with Anti-Glare technology
- Display area : 144 mm x 76 mm / 336,960 (1,440 x 234) pixels
- Touch panel operation
- Auto dimmer control
- Picture Adjustment
- Adjustable viewing angle (50° — 110°)
- Selectable wide-screen mode (Just/Full/Cinema/Zoom/Normal)
- 10-character sub display

BUILT-IN DVD/CD/MP3 PLAYER
- DVD-Video, DVD-R/DVD-RW, CD/CD-R/CD-RW/MP3 playback — even while navigating
- Built-in Linear PCM/Dolby Digital decoder
- Region Number: 2

DVD Capabilities
- DVD-Video playback with Direct Search (Title/Chapter/Time, Next/Previous Chapter, Fast Forward/Reverse, Pause, Chapter Repeat, Condition Memory (30 discs)
- Resume play

CD Capabilities
- CD playback with Track Search/Scan/Pause/Repeat, Random Play, CD Text, List Search
- 96 KHz/24-bit DAC
- 24-bit D/A converter
- Fast Forward/Reverse
- Track Manual Search
- Auto MP3 File/CD Track display
- MP3 ID3 tag data display

TUNER
- Adaptive RDS (PL, PS, AF, TP/TA)
- PTY (search and alarm)
- Station Name List (PS)
- NEWS interrupt feature
- Radio Text
- D4Q Digital AM/FM tuner
- High speed PLL Synthesizer Tuner
- PNS (Pulse Noise Suppressor)
- 24 Presets
- BSM (Best Stations Memory)

AUDIO/VISUAL
- 1 RCA AV input
- 1 RCA AV rear output
- 1 video input for Rear View camera
- Dual Zone operation
- IP-bus control for adding (PAL) TV Tuner/Multi-CD Player/DAB Tuner/ AUX/EXT 1&2
- AV-bus control for (PAL) TV Tuner/Multi-DVD Player/Single DVD Player

AUDIO
- MOSFET 50 W x 4 amplifier
- Optimum sound reproduction for in-car entertainment: Built-in EEQ (Easy EQ) Plus system with 5-mode factory preset equaliser, 2 custom preset equalisers, 3-band parametric equaliser, Source Equalisation memory, 3-mode loudness and HPF/LPF network
- EQ-EX
- Direct Sub Drive
- Source Level Adjuster
- Fader
- 3-channel RCA Pre-Outs (Front+Rear+Subwoofer)

GENERAL
- Multi-CD control
- Source TV control
- DAB tuner control
- Source DVD control
- External unit control via IP-bus (2)
- AUX-in
- Wired Remote control ready
- BGV selectable
- Selectable background pictures
- ISO connector
- Rotary volume
- Removable Front Panel
- Dual button illumination (green/red)
- Cellular telephone auto muting

PIONEER WORLD

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http://www.pioneer.co.jp/environment/e/

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The Pioneer Corporation headquarter at Meguro and Tokorozawa plant have received ISO14001 certification.

Your local Pioneer dealer

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